



MATHS

NCERT - NCERT

MATHEMATICS(Hinglish)

MENSURATION

Exercise 10 3

1. What is the cost of tiling a rectangular plot of land 500 m long and 200 m wide at the rate

of Rs 8 per hundred sq m.?



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2. The area of a rectangular garden $50m$ long is $300sq\ m$. Find the width of the garden.

A. $6m$

B. $8m$

C. $16m$

D. $9m$

Answer: A



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3. A room is 4 m long and 3 m 50 cm wide. How many square metres of carpet is needed to cover the floor of the room?



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4. A table-top measures 2 m by 1 m 50 cm. What is its area in square metres?



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5. Find the areas of the rectangles whose sides are : (a) 3 cm and 4 cm (b) 12 m and 21 m (c) 2 km and 3 km (d) 2 m and 70 cm



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6. The length and breadth of three rectangles are as given below : (a) 9 m and 6 m (b) 17 m and 3 m (c) 4 m and 14 m

Which one has the largest area and which one has the smallest?



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7. Find the areas of the squares whose sides are :

(a) 10 cm

(b) 14 cm

(c) 5 m



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8. Five square flower beds each of sides 1 m are dug on a piece of land 5 m long and 4 m wide. What is the area of the remaining part of the land?



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9. A floor is 5 m long and 4 m wide. A square carpet of sides 3 m is laid on the floor. Find the area of the floor that is not carpeted.



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10. How many tiles whose length and breadth are 12 cm and 5 cm respectively will be needed to fit in a rectangular region whose length and breadth are respectively:

(a) 100 cm and 144 cm

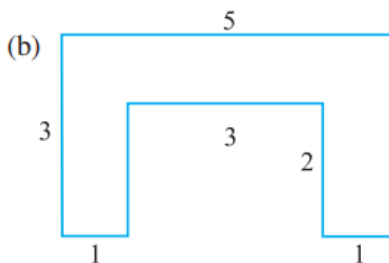
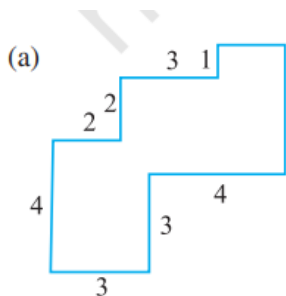
(b) 70 cm and 36 cm.



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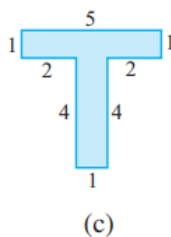
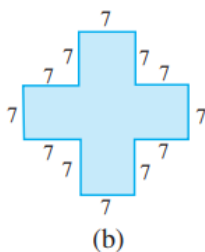
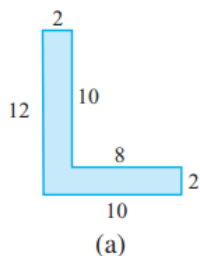
11. By splitting the following figures into rectangles, find their areas (The measures are

given in centimetres).



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12. Split the following shapes into rectangles and find their areas. (The measures are given in centimetres)

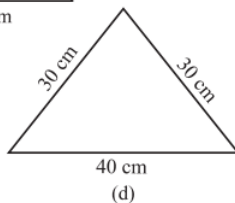
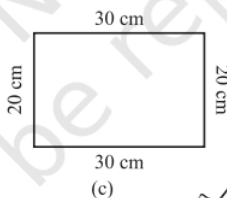
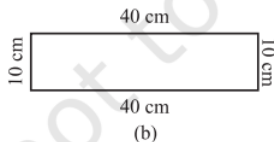
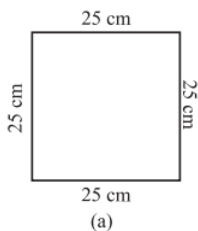




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Exercise 10 1

1. What is the perimeter of each of the following figures? What do you infer from the answers?



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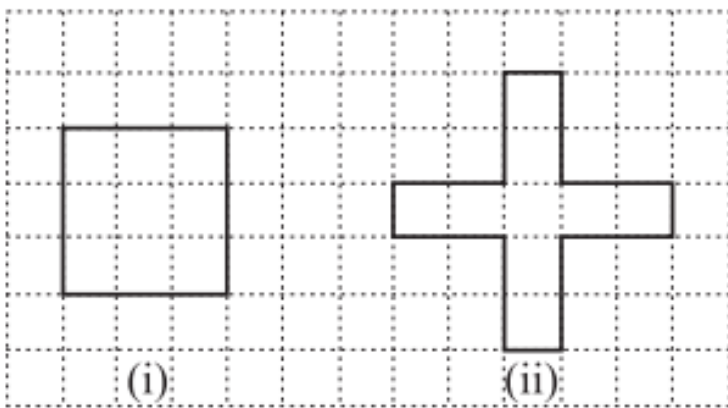
2. Two sides of a triangle are 12 cm and 14 cm. The perimeter of the triangle is 36 cm. What is its third side?



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3. Avneet buys 9 square paving slabs, each with a side of $\frac{1}{2}$ m. He lays them in the form of a square. (a) What is the perimeter of his arrangement [Fig 10.7(i)]? (b) Shari does not

like his arrangement. She gets him to lay them out like a cross. What is the perimeter of her arrangement [(Fig 10.7 (ii))]? (c) Which has greater perimeter? (d) Avneet wonders if there is a way of getting an even greater perimeter. Can you find a way of doing this? (The paving slabs must meet along complete edges i.e they cannot be broken.)



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4. A table-top measures 2 m 25 cm by 1 m 50 cm. What is the perimeter of the table-top?



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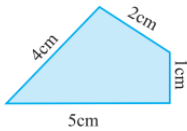
5.2. The lid of a rectangular box of sides 40 cm by 10 cm is sealed all round with tape. What is the length of the tape required?



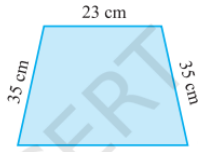
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6. Find the perimeter of each of the following

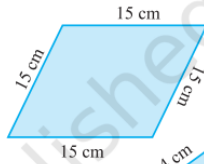
figures :



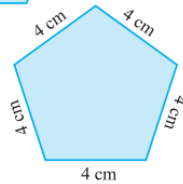
(a)



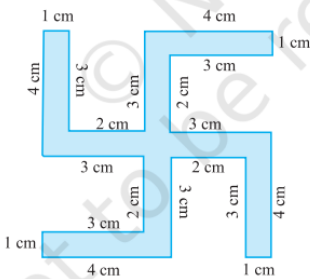
(b)



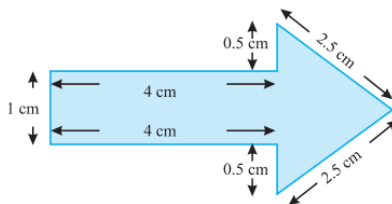
(c)



(d)



(f)



(e)



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7. Find the perimeter of a triangle with sides measuring 10 cm, 14 cm and 15 cm.



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8. Find the side of the square whose perimeter is 20 m.



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9. The perimeter of a regular hexagon with each side measuring 8 m



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10. Find the perimeter of each of the following shapes :

(a) A triangle of sides 3 cm, 4 cm and 5 cm.

(b) An equilateral triangle of side 9 cm.

(c) An isosceles triangle with equal sides 8 cm each and third side 6 cm





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11. A piece of string is 30 cm long. What will be the length of each side if the string is used to form : (a) a square? (b) an equilateral triangle? (c) a regular hexagon?



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12. A rectangular piece of land measures 0.7 km by 0.5 km. Each side is to be fenced with 4

rows of wires. What is the length of the wire needed?



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13. What is the length of the wooden strip required to frame a photograph of length and breadth 32 cm and 21 cm respectively?



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14. 8. Find the perimeter of the regular hexagon with each side measuring $8m$ (9). Find the side of a square whose perimeter is $20m$ (10). The perimeter of a regular pentagon is 100 cm. How long is its each side?



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15. Sweety runs around a square park of side 75 m. Bulbul runs around a rectangular park

with length 60 m and breadth 45 m. Who covers less distance?



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16. Find the cost of fencing a rectangular park of length 175 m and breadth 125 m at the rate of Rs 12 per metre. Sweety runs around a square park of side 75m . bulbul runs around a rectangular park of length 60m and breadth 45m . who covers less distance ?



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Solved Examples

1. The area of a rectangular piece of cardboard is 36 sq cm and its length is 9 cm. What is the width of the cardboard?



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2. Find the area in square metre of a piece of cloth 1m 25 cm wide and 2 m long.



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3. Bob wants to cover the floor of a room 3 m wide and 4 m long by squared tiles. If each square tile is of side 0.5 m, then find the number of tiles required to cover the floor of the room.

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4. Find the area of a square plot of side 8 m.

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5. Find the area of a rectangle whose length and breadth are 12 cm and 4 cm respectively



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6. By counting squares, estimate the area of the figure 10.9 a.



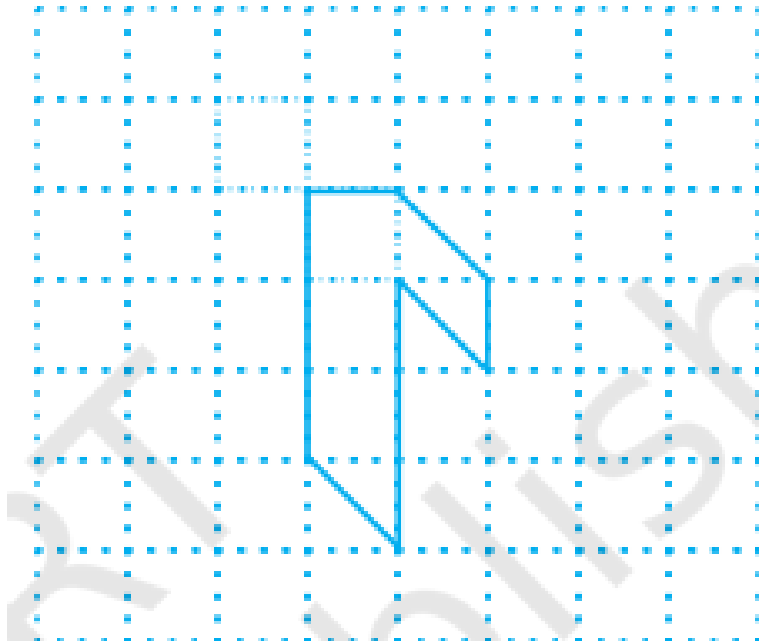
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7. By counting squares, estimate the area of the figure 10.9 b.



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8. Find the area of the shape shown in the figure 10.10.



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9. A farmer has a rectangular field of length and breadth 240 m and 180 m respectively. He wants to fence it with 3 rounds of rope as shown in figure 10.4. What is the total length of rope he must use?



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10. Find the cost of fencing a rectangular park of length 250 m and breadth 175 m at the rate of Rs 12 per metre.





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11. Find the distance travelled by Shaina if she takes three rounds of a square park of side 70 m.



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12. Pinky runs around a square field of side 75 m, Bob runs around a rectangular field with length 160 m and breadth 105 m. Who covers more distance and by how much?



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13. Shabana wants to put a lace border all around a rectangular tablecover (Fig 10.3), 3 m long and 2 m wide. Find the length of the lace required by Shabana.



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14. An athlete takes 10 rounds of a rectangular park, 50 m long and 25 m wide. Find the total

distance covered by him.



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15. Find the perimeter of a rectangle whose length and breadth are 150 cm and 1 m respectively



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16. Find the perimeter of a regular pentagon with each side measuring 3 cm.



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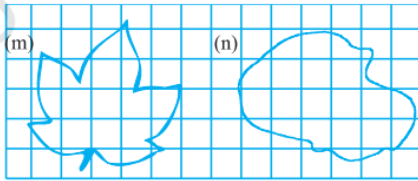
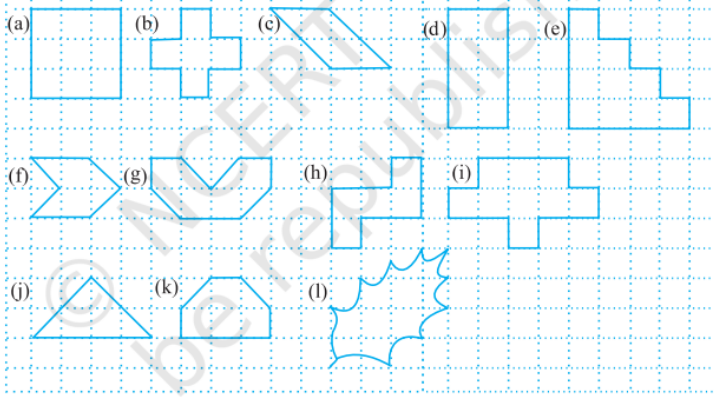
17. The perimeter of a regular hexagon is 18 cm. How long is its oneside?



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Exercise 10 2

1. 1. Find the areas of the following figures by counting square:



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